

ZOOLOGICAL SPECIMENS ON THE GALLERIES

1 GIANT CLAM

EVOLUTION DISPLAY

Fossil Record - horse leg bones

Evolution -

8 Rainbow Lory *Trichoglossus haematodus*
1 Ornate Lorikeet *Trichoglossus ornatus*
1 Scaly-breasted Lory *Trichoglossus chlorolepidotus*

Natural selection - 1 male Redstart, 9 Peppered moths

Artificial Selection - 5 Dog skulls

Sources of variation - 2 Rabbits

Variation -

33 Banded Snails *Cepaea nemoralis*
10 Peacock Butterflies *Inachis io*

HARENA FOREST

Reed Frog *Afrixalus enseticola*

Frog Nov. species.

Narrow-headed Rat *Stenocephalemys griseicauda* 1 skin
Grey Long-eared Bat *Plecotus austriacus* 1 skin
Fish *Barbus sp.* 2 spirit
Abyssinian Crimson-wing *Cryptospiza salvadorii* 1 skin

TIME TUNNEL

1 modern Alligator egg

CONIFEROUS FOREST

SURVIVAL IN WINTER

Wood Lemming *Myopus schisticolor* 1 mount.
Siberian Chipmunk *Tamias sibiricus* 1 mount
Roe Deer coat (winter and summer) *Capreolus capreolus* 2 skins

Common Crossbill *Loxia curvirostra* 2 skins (M/F)
Parrot Crossbill *L. pytyopsittacus* 1 skin (M)
White-winged Crossbill *L. leucoptera* 1 skin (M)

INSECTS

| | |
|--|-----------------------|
| Wood White | 2 |
| Camberwell Beauty | 2 |
| Small Copper | 2 |
| Silver-washed Fritillary | 2 (1 valesina female) |
| Apollo | 2 |
| High Brown Fritillary | 2 |
| Small Pearl-bordered Fritillary | 2 |
| Speckled Wood | 2 |
| Large Tortoiseshell | 1 |
| Chequered Skipper | 1 |
| Purple Emperor | 1 |
| Nun Moth <i>Lymantria monacha</i> | 2 + 1 caterpillar |
| Bordered White <i>Bupalis piniaria</i> | 2 (M & F) |

| | |
|--|------------------|
| Tawny-barred Angle <i>Semiothisa liturata</i> | 2 |
| Pine Beauty <i>Panolis griseovariegata</i> | 2 |
| Pine Shoot Tortrix <i>Evetria pinicolana</i> | 2 |
| Pine Hawk Moth <i>Hyloicus pinastri</i> | 2 |
| Bark Beetle <i>Hylurgus piniperda</i> | 2 + galleries |
| Longhorn Beetle (Timberman ?) <i>Rhagium bifasciatum</i> | 3 |
| Timberman <i>Acanthcinus aedilis</i> | 2 |
| Eyed Ladybird <i>Anatis ocellata</i> | 2 |
| 7 spot Ladybird <i>Cocinella 7-punctata</i> | 3 |
| Garden Chafer <i>Phyllopertha horticola</i> | 3 |
| Small Wood Wasp <i>Sirex juvenicus</i> | 2 |
| Greater Wood Wasp <i>Urocerus gigas</i> | 2 |
| Wood Wasp Ichneumon <i>Rhyssa persuasoria</i> | 1 |
| Tree Wasp <i>Dolichovespula sylvestris</i> | 1 + part of nest |
| Hornet <i>Vespa crabro</i> | 1 + part of nest |
| Wood Ant <i>Formica rufa</i> | 1 + few in nest |

MOUNTED BIRDS AND MAMMALS

| | |
|---|---|
| Grey Wolf <i>Canis lupus</i> | Pine Marten <i>Martes martes</i> |
| Otter <i>Lutra lutra</i> | Roe Deer <i>Capreolus capreolus</i> |
| Eurasian Flying Squirrel <i>Pteromys volans</i> | |
| Red Squirrel <i>Sciurus vulgaris</i> | Lynx <i>Lynx lynx</i> |
| Common Shrew <i>Sorex araneus</i> | Wood Lemming <i>Myopus schisticolor</i> |
| Brown Bear <i>Ursus arctos</i> | |

Pair of Capercaillie

| | |
|--------------------------|----------------------------|
| 2 male Sparrowhawk | Chaffinch |
| Jay | Greater Spotted Woodpecker |
| Black Grouse | Hawk Owl |
| Osprey | Chiffchaff |
| Nutcracker | Eurasian Eagle Owl |
| Goshawk | Black Woodpecker |
| Great Tit | Waxwing |
| Pair of Common Crossbill | |
| Song Thrush | Mistle Thrush |
| Goldcrest | Crested Tit |
| Long-tailed Tit | |

Hornets Nest

Tree Wasp Nest

ARCTIC

The World of the Lemming

| | |
|----------------|-------------|
| Gyr Falcon | 1 mount |
| Snow Bunting | 1 male skin |
| Lemming | 1 mount |
| Animal Bones | 5 |
| Arctic insects | 8 |

INSECTS

| | |
|--|---|
| Freija's Fritillary <i>Clossiana freija</i> | 2 |
| Arctic Fritillary <i>Clossiana chariclea</i> | 2 |

| | |
|---|-----------|
| Moorland Clouded Yellow <i>Colias palaeno</i> | 1 |
| Northern Clouded Yellow <i>Colias hecla</i> | 2 |
| Pale Arctic Clouded Yellow <i>Colias nastes</i> | 2 |
| Arctic Ringlet <i>Erebia disa</i> | 2 |
| Small Tortoiseshell | 2 |
| Common Blue | 2 (M & F) |
| Pearl-bordered Fritillary | 2 |
| Large Wall Brown <i>Lasiommata maera</i> | 2 |
| Cranberry Blue <i>Vacciniina optilete</i> | 2 |
| Dewy Ringlet <i>Erebia pandrose</i> | 2 |
| Purple-edged Copper <i>Palaeochrysophanus hippothoe</i> | 2 |
| Narrow-borderd Bee Moth <i>Hemaris tityus</i> | 2 |
| Four-spotted Libellula <i>Libellula quadrimaculata</i> | 1 |
| Mosquito <i>Anopheles claviger</i> | 1 |

LIFE IN A COLD CLIMATE

| |
|--------------------------------------|
| 1 female Eider (mount) |
| 1 Red Grouse (mount) |
| 1 Ptarmigan (winter plumage) (mount) |
| 1 Pink-footed Goose (mount) |

Ears of Arctic Hare (2) & European Hare (2)

THE TUNDRA

Mounted Birds

| | |
|-----------------------------|--------------------|
| Red-necked Phalarope | Little Stint |
| Snow Bunting | Turnstone |
| Snowy Owl (F) | Golden Plover |
| Ptarmigan | Pink-footed Goose |
| Common Eider (male) | Great Skua |
| Glaucous Gull | Long-tailed Skua |
| Great Northern Diver (s.p.) | Red-breasted Goose |
| Long-tailed Duck (M) | |

Mounted Mammals

| | |
|--|---------------------|
| Brown Lemming <i>Lemmus lemmus</i> | 3 |
| Reindeer | |
| Arctic Hare (winter) | Arctic Fox (winter) |
| Polar Bear | |
| Ringed Seal <i>Phoca hispida</i> (young) | |

DESERT

| | |
|---|---|
| Jack Rabbit <i>Lepus allenii</i> | |
| Striped Skunk <i>Mephitis mephitis</i> | |
| Coyote <i>Canis latrans</i> | |
| Peccary <i>Tayassu tajacu</i> | |
| Puma <i>Felis concolor</i> | |
| Kangaroo Rat <i>Dipodomys spectabilis</i> | 2 |
| Kit Fox <i>Vulpes (macrotis) velox</i> | |

Great Horned Owl *Bubo virginianus*
Elf Owl *Micropallias whitneyi* 2

Diamondback Rattle Snake *Crotalus atrox*

SURVIVAL IN THE DESERT

Ground Squirrel- *Citellus harrisi*
Merriam's Kangaroo Rat - *Dipodomys merriami*

DESERT BIRDS

Gila Woodpecker *Melanerpes uropygialis (hypopolius)*
Golden-fronted Woodpecker *Melanerpes (Centurus) aurifrons*
Yellow-shafted Flicker *Colaptes auratus* Male and female
California Quail *Lophortyx californicus*
Mourning Dove *Zenaidura macroura*
Roadrunner *Geococcyx californicus*
Turkey Vulture *Cathartes aura*
Cactus Wren *Campylorhynchus brunneicapillus*

SPIDERS

Tarantula (female) *Aphonopelma sp.*
Burrow of Trapdoor Spider
Scorpion - *Centruroides sculpturatus* 2
Scorpion - *Hadrurus arizonensis* 2

SAVANNAH

Long-tailed Widow Bird *Euplectes progne* Male
Paradise Whydah Bird *Vidua paradisaea* Male
Black-collared Barbet *Lybius torquatus*
Greater Blue-eared Glossy Starling *Lamprotornis chalybaeus*
Red-backed Shrike *Lanius collurio*
Fiscal Shrike *Lanius collaris*
Lanner Falcon *Falco biarmicus*
Knysna Turaco *Tauraco corythaix*
Marabou Stork *Leptoptilos crumeniferus*
Didric Cuckoo *Chrysococcyx caprius*
Red Bishop Bird *Euplectes orix*
Sacred Ibis *Threskiornis aethiopicus*
Black-shouldered Kite *Elanus caeruleus*
Black-headed Oriole *Oriolus larvatus*
Paradise Flycatcher *T. viridis*
Malachite Sunbird *N. famosa*
Crowned Crown *B. pavonica* 2

Kirk's Dik-dik *Madoqua kirkii* 2
Bush Pig or Red River Hog *Potamochoerus porcus*
Impala *A. melampus* Male
Spotted Hyaena *C. crocuta*
Zebra *Equus sp.*
Aardvark *Orycteropus afer*
Serval *Felis serval*
Brindled Gnu *C. taurinus*
Olive Baboon *P. anubis*
Blotched Genet *G. tigrina*
Leopard *Panthera pardus*
Red Duiker *C. natalensis*
Patas or Red Monkey *E. patas*

Termite Hill *Macrotermes bellicosus*

Elephant jaw-bone and tooth *Loxodonta africana*

Snail *Limicolaria kambeul* 4

Giant Stick Insect *Palophus sp.*

SAVANNAH INSECTS

Beetles

Anthia thoracica

Goliath Beetle *Goliathus giganteus*

Mylabris oculta

Phantasis phantoma

Grasshoppers

Phymateus viridipes

Pycnodictya gastrimargus

Anacridium vernellerum

Hymenoptera

Ant *Camponotus fulvipilosus* 2

Wasp *Hemipepsis vespertilio*

Wasp *Sphex xanthocerus*

Bee *Xylocapa flavorufa*

Bee *Xylocapa inconstans* 2

Ant Lions

Tomateres citrinus

Palpares moestus

Termites

Macrotermes bellicosus Queen, King, Winged Male, 2 Soldiers, 1

Worker.

Termite mound - *Cubitermes fungifaber*

Diptera

Life cycle of Tsetse Fly *G. morsitans* 3 adults, 3 puparia.

Lepidoptera

Axiocerces harpax

Papilio demodocus 4

Papilio antheus 2

Papilio leonides

Acraea semivitrea

Acraea zetes

Iolaus silas

Precis stygia

Phasis osbecki

Teracolus ione

Hypolimnas salmacus

Cupido nubifer 2

Charaxes lucretius 2

Charaxes candiope 2

C. pollux
C. saturnus
Spindasis mozambica 2

Hawkmoth- *Basiothea medea*
Hawkmoth - *Hippotion eson*

RAIN FOREST

EDENTATES

3-toed Sloth *Bradypus tridactylus*.
6-banded or White-bristled Hairy Armadillo *Euphractus sexcinctus*
Tamandua or Collared Anteater *Tamandua tetradactyla*

REPTILES

Snake Skull of a Bird-eating Boa

HUMMINGBIRDS

Patagona gigas peruviana Largest
Bee Hummingbird *Mellisuga minima* Smallest
Crimson Topaz *Topaza pella* Male
Doctor Bird *Trochilus polytmus*
Sappho's Comet *Sappho sparganura sapho* Female
Green-tailed Sylph *Lesbia nuna* Male
White-necked Jacobin *Florisuga mellivora* Male
Green Hermit *Phaethornis guy* Male
Sickle-billed Hummingbird *Eutoxeres aquila*
Saw-billed Hermit *Rhamphodon naevius* Male
Violet-eared Pufflegs *Eriocnemis luciani*
Black-eared Fairy *Heliothryx aurita auriculata* Male
Black-throated Mango *Anthracothorax nigricollis* Male
Collared Inca *Coeligena torquata* Female
Collared Inca *Coeligena inca* Male
Black-hooded Sunbeam *Aglaeactis pamela*
Fork-tailed Wood Nymph *Thalurania furcata* Male
Sun Gem *Heliactin cornuta*
Amethyst Woodstar *Calliphlox amethystma* Female
Raquet-tailed Coquette *Discosura longicauda* Male
Dot-eared Coquette *Lophornis gouldii* Male

+ 2 wts.

MOUNTED BIRDS

Sunbittern *E. helias*
Little Chachalaca *O. motmot*
Eastern Chachalaca *O. vetula*
Hoatzin *O. hoazin*
Striated Heron *B. striatus*
Scarlet Ibis *E. ruber*
Great Black Hawk *Buteogallus urubitinga*
Snail Kite *R. sociabilis*
Rufous Crab-hawk *B. aequinoctialis*

Nacunda Nighthawk *P. nacunda*
Swallow-tailed Hummingbird *E. macroura*
Green and Rufous Kingfisher *C. inda*
Amazon Kingfisher *C. amazona*
Lineated Woodpecker *D. lineatus*
Golden-spangled Piculet *P. exilis*
Rufous-tailed Jacamar *G. ruficauda*
Paradise Jacamar *G. dea*
Great Jacamar *J. aurea*
White-whiskered Puffbird *M. panamensis*
Collared Puffbird *B. capensis*
Barred Antshrike *T. doliatus*
Bridge's Antshrike *T. bridgesi* Male and female
Spotted Antbird *H. naevioides* Male and female
White-plumed Antbird *P. albifrons*
Dot-winged Antwren *M. quixensis*
Ferruginous-backed Antbird *M. ferruginea*
Slaty Antwren *M. schisticolor*
Guianan Cock of the Rock *Rupicola rupicola* 4 male 1 female
Eastern Kingbird *T. tyrannus*
Great Kiskadee *P. sulphuratus*
Bright-rumped Attila *A. spadiceus*
Rufous Mourner *R. holerythra*
Bay Wren *T. nigricapillus*
Stripe-breasted Wren *T. thoracicia* (*thoracicus*)
Rufous-breasted Wren *T. rutilus*
Golden-collared Manakin *M. vitellinus*
Blue-backed Manakin *C. pareola*
Golden-headed Manakin *P. erythrocephala*
Purple Honeycreeper *C. caeruleus*
Rufous-thighed Kite *H. diodon*
White Hawk *L. albicollis*
Laughing Falcon *H. cachinnans*
Collared Forest-falcon *M. semitorquatus*
Barred Forest Falcon *M. ruficollis*
Harpy Eagle *Harpia harpyja*
Bicoloured Hawk *Accipiter bicolor*
Plumbeous Hawk *I. plumbea*
Grey Hawk *B. nitidus*
Yellow-headed Caracara *M. chimachima*
Pearl Kite *G. swainsoni*
Ornate Hawk Eagle *S. ornatus*
Red-throated Caracara *D. americanus*
Blue and Yellow Macaw *A. ararauna*
Sun Parakeet *A. solstitialis*
Guira Cuckoo *G. guira*
Squirrel Cuckoo *P. cayana*
Guatemalan Quetzal *P. mocinno* Male
Slaty-tailed Trogon *T. massena* Female
Black-throated Trogon *T. rufus* 2 male
Blue-crowned Motmot *M. momota*
Black-spotted Barbet *C. niger*
Red-billed Toucan *R. tucanus*
Channel-billed Toucan *R. vitellinus*
Chestnut-eared Aracari *P. castanotis*

Curl-crested Aracari *P.beauharnaesi*
Guianan Toucanet *S.culik*
Barred Woodcreeper *D.certhia*
3-wattled Bellbird *P.tricarunculata*
Bearded Bellbird *P.averano*
Amazonian Umbrellabird *C.ornatus*
Purple-throated Fruit Crow *Q.purpurata*
Guianan Red Cotinga *P.carnifex*
Pompadour Cotinga *X.punicea*
Blue Cotinga *C.nattereri*
Swallow-tailed Cotinga *P.flavirostris*
Cayenne Jay *C.cayanus*
Yellow-rumped Cacique *C.cela*
Red-rumped Cacique *C.haemorrhou*
Yellow-billed Cacique *C.holosericeus*
Green Oropendula *P.viridis*
Turquoise Tanager *T.mexicana*
Speckled Tanager *T.guttata*
Scarlet Tanager *P.olivacea*
Yellow-rumped Tanager *R.flammigerus*
Blue-crowned Chlorophonia *Chlorophonia occipitalis*

MOUNTED MAMMALS

Capybara *H.hydrochaeris*
Kikajou *P.flavus*
3-toed Sloth *Bradypus sp.*
White-lipped Marmoset *S.nigricollis*
Squirrel Monkey *Saimiri sciureus*
Dourocouli or Night Monkey *Aotus trivirgatus*
Red-backed Saki *Chiropotes satanas*
Woolly Monkey *L.lagotricha*

BUTTERFLIES

5 Heliconiids
3 Pierids
1 Blue Morpho

RAIN FOREST - MIMICRY -BUTTERFLIES

Pieridae Dismorpha orise
Ithomiidae Dircenna xanthophane
Danaidae Ituna pherarete
Ithomiidae Methone psamathe
Hypsidae (Moth) Hylesia clio
Pieridae Dismorphia astynome
Ithomiidae Melinaea ethyra
Danaidae Lycorea halia
Pieridae Dismorphia praxinoe
Ithomiidae Melinaea imitata

BATESIAN MIMICRY

Heliconiidae Heliconius narcaea
Ithomiidae Mechanitis lysimnia
Nymphalidae Protagonus drurii

MULLERIAN MIMICRY

Ithomiidae *Hyposcada adelphina*
Ithomiidae *Melinaea messatis*
Heliconiidae *Heliconius ismenius*

LEPIDOPTERA

| | |
|-----------------------------------|---|
| <i>Dione moneta</i> | 3 |
| <i>Prepona praeusta</i> | |
| <i>Catagramma hydaspes</i> | 2 |
| Black Witch <i>Erebus odorata</i> | |
| <i>Catonephele salacia</i> | 2 |
| <i>Terias xanthoclora</i> | 2 |
| <i>Anartia amathea</i> | 2 |
| <i>Hypna clytemnestra</i> | 2 |
| <i>Papilio neophilus</i> | |

Moths

World's Largest Moth *Thysania agrippina*
Moth *Urania leilus*

Morpho's

| | |
|------------------------|-------------------|
| <i>Morpho achilles</i> | 2 males |
| <i>M. rhetenor</i> | 2 (male & female) |
| <i>M. menelaus</i> | 1 Male |
| <i>M. hecuba</i> | 1 Male |

Owl Butterflies

| | |
|----------------------|---|
| <i>Caligo atreus</i> | 2 |
|----------------------|---|

Other Butterflies & Moths

| | |
|---------------------------|---|
| <i>Dismorphia nemesis</i> | 2 |
| <i>Siosta bifasciata</i> | 2 |

Moth *Rothschildia erycina*

Moth *Argadesa materna*

Ardaris eximia

Victorina epaphus

Callicore clymena

Catopsilia sennae

2

Historis orion

Pyrropyge fluminis

Catopsilia argante

2

Hawk Moths

Erynnis ello

Protoparce rustica

Pholus vitis

COLEOPTERA

Harlequin Beetle *Acrocinus longimanus*

| | |
|--------------------------|---|
| <i>Conognatha amaena</i> | 2 |
|--------------------------|---|

| | |
|------------------------------|---|
| <i>Steirastoma marmorata</i> | 2 |
|------------------------------|---|

Batus barbicornis

Bearded Longhorn Beetle *Callipogon barbaratus* 2

Ctenocelis coeus

Callipogon armillatus

Macrodonta cervinicornis

Golofa porteri

Elephant Beetle *Megasoma gigas* 1 + 2 larva

| | |
|--|-------------------|
| <i>Lophonocerus hirticornis</i> | 2 |
| <i>Doracerus barbatus</i> | |
| <i>Plusiotis resplendens</i> | |
| <i>Phanaeus principalis</i> | 2 |
| <i>Unixia laeta</i> | |
| <i>Hypocephalus armatus</i> | |
| <i>Brenthus anchorago</i> | 2 (male & female) |
| <i>Lamprocyphus germari</i> | 2 |
| Tortoise Beetle <i>Mesomphalia sex-pustulata</i> | |
| Diamond-back Beetle <i>Entimus imperialis</i> | 4 |
| <i>Poropleura monstosa</i> | 2 |
| <i>Amphionycha hemispila</i> | |
| <i>Chiasognathus granti</i> | 3 |
| <i>Euchroma gigantea</i> | 3 |

OTHER INSECTS

| | |
|-----------------|-----------------------------|
| 1 Wasp Nest | |
| Thornhopper Bug | <i>Umbonia spinosa</i> |
| Alligator Bug | <i>Fulgora laternaria</i> 2 |

MOLLUSCA

| | | |
|-------------------|------------------------------|---|
| Tree Snail | <i>Strophocheilus ovatus</i> | 2 |
| | <i>Odontosoma exesus</i> | 2 |
| Freshwater Snail | <i>Pomacea urceus</i> | |
| | <i>Marisa cornuarietis</i> | 4 |
| Freshwater Mussel | <i>Prisodon rugosissima</i> | |
| | <i>Streptaxis wagneri</i> | |
| | <i>Anostoma carinatum</i> | |
| Tree Snail | <i>Sultana kelleti</i> | 4 |

gallery numbers

| | 1 Evolution | 2 Rain Forest | 3 Savanna | 4 Desert | 5 Arctic | 6 Conifer | 7 Horseman | 8 Other | 9 | 10 TOTAL |
|---------------|-------------|---------------|-----------|----------|----------|-----------|------------|---------|-----|------------|
| Skeletal | 6 | - | 2 | - | 5 | - | - | - | - | 13 |
| Mounted Mamm | 2 | 11 | 14 | 10 | 6 | 12 | - | - | - | 55 |
| Mamm Skin | - | - | - | - | 4 | 2 | 2 | - | - | 8 |
| Mounted Birds | 1 | 92 | 18 | 7 | 19 | 24 | - | 2 | 163 | |
| Bird Skin | 10 | 17 | - | - | 2 | 4 | 1 | - | - | 34 |
| Reptiles | - | 1 | - | 1 | - | - | - | 1 | - | 3 |
| Amphibians | - | - | - | - | - | - | 10 | - | - | 10 |
| Fish | - | - | - | - | - | - | 2 | - | - | 2 |
| Mollusca | 33 | 16 | 4 | - | - | - | - | 1 | - | 54 |
| Arachnids | - | - | - | 6 | - | - | - | - | - | 6 |
| Lepidoptera | 19 | 69 | 27 | - | 27 | 32 | - | - | - | 174 |
| Hymenoptera | - | 1 | 7 | - | - | 13 | - | - | - | 21 |
| Coleoptera | - | 41 | 4 | - | - | 15 | - | - | - | 60 |
| Diptera | - | 6 | - | 1 | - | - | - | - | - | 7 |
| Other Insects | - | 2 | 15 | - | 9 | - | - | - | - | 26 |
| | | | | | | | | | | <u>636</u> |